

EXPANSION BEARING

	PLATE "A"		PLATE "B"		PLATE "C"		PLATE "D"			PLATE	ANCHOR NO. OF BOLT BRG'S		LOCATION	GIRDER —	PLATE "C" GIRDER —	
	'X'	'Z'	'X'	'Z'	'X'	'Y'	'Z'	'X'	ıγı	'Z'	TYPE	SIZE	BRG'S REQ'D.	LOCATION	PLATE "D" (SEE EXP. BRC. R "D" FOR DETAILS)	
						В					I	32 mm ¢				
BEARING											П	38 mm ¢			∠ € CIR.	
EARI							-				-					_
۳ ا															41 mm ¢ DRILLED HOLE, 16 mm DEEP	→ (S W
						В									ANCHOR BOLTS (SHOWN FOR	`
					FIXED BEARING										TYPE I PLATE"D") © OF BEAR	
					BE A											
						4									FIXED BEARING	
															ANSI 250 FINISH	
															PLATE "C" ASSEMBLY	

FIXED BEARING

DLATE IICII

BEARING NOTES

ALL BEARINGS ARE SYMMETRICAL ABOUT & OF GIRDER AND C OF BEARING.

ALL STRUCTURAL STEEL BEARING PLATES SHALL BE FLAT ROLLED STEEL PLATES WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL.

ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUTS. ALL FINISHED SURFACES SHALL BE MACHINE FINISHED BY AN AUTOMATIC PROCESS.

CHAMFER ANCHOR BOLTS PRIOR TO THREADING. ANCHOR BOLTS SHALL BE THREADED 75 mm. PROVIDE ONE STANDARD WROUGHT WASHER AND ONE HEX NUT PER BOLT. BOLT LENGTH TO BE 425 mm FOR 32 mm \$\phi\$ AND 560 mm FOR 38 mm ¢ BOLTS. PROJECT ANCHOR BOLTS "D" PLATE THICKNESS +60 mm ABOVE TOP OF CONCRETE.

CHAMFER TOP OF PINTLES 3 mm. DRILL HOLES FOR PINTLES IN ALL "D" PLATES FOR DRIVING FIT.

ALL MATERIAL INCLUDING SHIMS BUT EXCLUDING ANCHOR BOLTS, STAINLESS STEEL, TEFLON SURFACE, PINTLES, NUTS AND WASHERS SHALL BE MADE OF ASTM A709M GRADE 345W. STEEL PINTLES SHALL BE MADE OF ASTM A449 STEEL OR MATERIAL OF EQUAL YIELD STRENGTH & ELONGATION. ANCHOR BOLTS, NUTS & WASHERS SHALL CONFORM TO ASTM A709M GRADE 250 OR MATERIAL OF EQUIVALENT YEILD STRENGTH & ELONGATION.

PROVIDE 3 mm THICK BEARING PAD SAME SIZE AS PLATE "D" FOR EACH BEARING.

ALL MATERIAL IN BEARINGS, INCLUDING BEARING PADS & SHIM PLATES SHALL BE PAID FOR AT THE UNIT PRICE BID FOR "EXPANSION BEARING ASSEMBLIES" OR "FIXED BEARING ASSEMBLIES", RESPECTIVELY.

ANCHOR BOLTS, NUTS & WASHERS SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153 CLASS C.

ALL SURFACES OF BEARING PLATES, EXCEPT STAINLESS STEEL & TEFLON SURFACES, SHALL BE PAINTED AFTER GALVANIZING WITH A TIE COAT, INTERMEDIATE COAT & TOP COAT. FOR UNPAINTED STRUCTURES, BEARING PLATES WELDED TO THE GIRDER NEED NOT BE PAINTED.

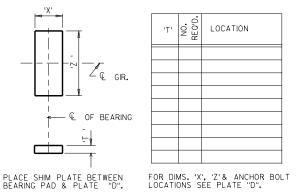
ALL DIMENSIONS ARE IN MILLIMETERS.

- * FINISH THESE SURFACES ANSI 250 FINISH IF 'Y' DIM. IS GREATER THAN 50 mm.
- PROVIDE A METHOD FOR HANDLING PLATE "C"
 DURING GALVANIZING,

19 mm ø ROD THR'D 100 mm _ HEX NUT BEVELED OR PLATE WASHER - 24 mm X 38 mm SLOTTED HOLE IN END DIAPH. (SLOTTED IN DIRECTION OF CHANNEL) STD. GAGE ∠AFTER SUPERSTRUCTURE CONCRETE IS POURED BURN OFF BAR FLUSH WITH CONCRETE SURFACE

TEMPORARY HOLD DOWN

PLACE ONE PER GIRDER AT ABUTMENT WHERE SLAB POUR TERMINATES. LOCATE 450 mm (NORMAL) OFF & OF GIRDER. TO BE PAID FOR AS "STRUCTURAL CARBON



SHIM PLATE DETAILS

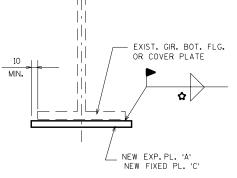
IN LIEU OF SHIM PLATE, THICKNESS OF PLATE "A" OR "D". MAY BE INCREASED BY "T" THE SHIM PLATE THICKNESS.

SHIM PLATE NOT REQUIRED IF FLANGE BUTT SPLICE IS ELIMINATED & THE LARGER FLANGE PLATE IS EXTENDED TO THE END OF THE GIRDER.



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BEVELED PLATE "C"



BEARING REPLACEMENT DETAILS

TABLE OF FILLET WELD SIZES

THICKNESS OF THICKER PART JOINED	# MIN.SIZE OF FILLET WELD
TO 12 mm INCLUSIVE	5
OVER 12 mm TO 18 mm	6
OVER 18 mm TO 38 mm	8
OVER 38 mm TO 55 mm	10
OVER 55 mm TO 150 mm	13

 \mp EXCEPT THAT WELD SIZE SHALL NOT EXCEED THICKNESS OF THINNER PART JOINED.

NO. DATE STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION STRUCTURE PLANS CK'D. 1996 SHEET **BEARING**

DETAILS